

## Title (en)

High temperature ceramic composite.

## Title (de)

Hochtemperaturfester, keramischer Verbundstoff.

## Title (fr)

Composite céramique résistant à de hautes températures.

## Publication

**EP 0528411 A1 19930224 (EN)**

## Application

**EP 92114133 A 19920819**

## Priority

US 74764791 A 19910820

## Abstract (en)

This invention provides a shaped ceramic composite article comprising ceramic oxide fiber(s), a first coating comprising a carbonaceous matrix which includes boron nitride particles in contact therewith, and a second coating comprising silicon carbide. The inventive composite article is useful in applications requiring good heat resistance and mechanical properties, such as gas fired radiant burner tubes, gas burner nozzle liners, heat exchangers, thermowells, core busters or flame dispersers, and other gas fired furnace components.

## IPC 1-7

**C04B 35/80; C04B 41/89**

## IPC 8 full level

**C04B 35/52** (2006.01); **C04B 35/80** (2006.01); **C04B 41/52** (2006.01); **C04B 41/89** (2006.01); **F23D 14/16** (2006.01); **F28F 21/04** (2006.01)

## CPC (source: EP US)

**C04B 35/571** (2013.01 - EP US); **C04B 35/62863** (2013.01 - EP); **C04B 35/62873** (2013.01 - EP); **C04B 35/62889** (2013.01 - EP); **C04B 35/62894** (2013.01 - EP); **C04B 35/80** (2013.01 - EP US); **C04B 41/009** (2013.01 - EP US); **C04B 41/52** (2013.01 - EP US); **C04B 41/89** (2013.01 - EP US); **F28F 21/04** (2013.01 - EP US); **C04B 2235/3865** (2013.01 - EP); **C04B 2235/5224** (2013.01 - EP); **C04B 2235/5228** (2013.01 - EP); **C04B 2235/5252** (2013.01 - EP); **C04B 2235/5264** (2013.01 - EP); **C04B 2235/5436** (2013.01 - EP); **C04B 2235/5445** (2013.01 - EP); **C04B 2235/6028** (2013.01 - EP); **C04B 2235/606** (2013.01 - EP); **C04B 2235/614** (2013.01 - EP); **C04B 2235/616** (2013.01 - EP); **C04B 2235/6567** (2013.01 - EP); **C04B 2235/96** (2013.01 - EP); **F23D 2212/00** (2013.01 - EP US); **Y10S 428/902** (2013.01 - EP US); **Y10T 428/131** (2015.01 - EP US); **Y10T 428/1314** (2015.01 - EP US); **Y10T 428/1317** (2015.01 - EP US); **Y10T 428/1362** (2015.01 - EP US); **Y10T 428/1369** (2015.01 - EP US); **Y10T 428/25** (2015.01 - EP US); **Y10T 428/30** (2015.01 - EP US); **Y10T 442/2107** (2015.04 - EP US)

## C-Set (source: EP US)

## EP

1. **C04B 41/52 + C04B 41/5001 + C04B 41/5064**
2. **C04B 41/52 + C04B 41/4529 + C04B 41/5059**
3. **C04B 41/009 + C04B 35/18**
4. **C04B 35/806 + C04B 41/009**
5. **C04B 41/009 + C04B 14/4656 + C04B 30/02**

## US

1. **C04B 41/52 + C04B 41/5001 + C04B 41/5064**
2. **C04B 41/52 + C04B 41/4529 + C04B 41/5059**
3. **C04B 41/009 + C04B 35/18**
4. **C04B 41/009 + C04B 14/4656 + C04B 30/02**

## Citation (search report)

- [YP] EP 0495570 A1 19920722 - HITCO [US]
- [YD] US 4889686 A 19891226 - SINGH RAJ N [US], et al
- [A] US 4735850 A 19880405 - EITMAN DAVID A [US]

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## Designated contracting state (EPC)

DE FR GB SE

## DOCDB simple family (publication)

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## DOCDB simple family (application)

**EP 92114133 A 19920819**; CA 2074200 A 19920720; DE 69202936 T 19920819; JP 22001892 A 19920819; US 23138194 A 19940422; US 27626094 A 19940718; US 74764791 A 19910820